

Claims

- [c1] 1. A method for manufacturing a stator or rotor component (10,12) having at least one blade joined together with at least one ring element (3, 11, 13), said method comprising: providing a joining material in contact with at least one of the blade (2) and the ring element (3,11, 13), the blade (2) and the ring element (3,11, 13) being arranged in relation to one another to be joined together via a butt joint when heat-treated; and conducting said heat-treatment so that the joining material forms a melt that joins the ring element (3,11, 13) and the blade (2) together upon solidification of the melt.
- [c2] 2. The method as recited in claim 1, wherein a plurality of blades are joined together with the ring element at a mutual spacing about a periphery of said ring element.
- [c3] 3. The method as recited in claim 1, wherein the ring element forms a ring that is continuous in a peripheral direction.
- [c4] 4. The method as claimed in claim 1, wherein at least one of said ring elements is joined together in a peripheral direction thereby forming a continuous ring.
- [c5] 5. The method as claimed in claim 1, wherein said ring element forms an outer ring and the blades are joined together with the outer ring in such a way that said blades project inward in the radial direction from the ring element.
- [c6] 6. The method as claimed in claim 1, wherein said ring element forms an inner ring and the blades are joined together with the inner ring in such a way that said blades project outward in the radial direction from the ring

element.

- [c7] 7. The method as recited in claim 5 or 6, wherein the ring element is joined together with at least one of (a) a disk-shaped and (b) an annular member further comprising a plurality of blades projecting radially; a first of the ring element and the at least one of (a) a disk-shaped and (b) an annular member is designed with a radially inner surface that is at least partially angled in relation to a central axis thereof and a radially outer surface of a second of the ring element and the at least one of (a) a disk-shaped and (b) an annular member has an essentially correspondingly angled shape; and the ring element and the at least one of (a) a disk-shaped and (b) an annular member are connected via relative axial movement therebetween when the angled surfaces are brought into mutual contact.
- [c8] 8. The method as recited in claim 7, wherein each of the angled surfaces is conically shaped.
- [c9] 9. The method as recited in claim 8, wherein said blades are milled out from a basic piece in the radial direction thereby forming said at least one of (a) a disk-shaped and (b) an annular member.
- [c10] 10. The method as claimed in claim 1, wherein said joining material is provided in the form of a layer (6).
- [c11] 11. The method as claimed in claim 1, wherein said joining material is applied to a surface of the ring element configured to contact said blades before the ring element and said blades are joined together.
- [c12] 12. The method as claimed in claim 11, wherein said joining material is applied so that it forms a continuous layer (6).

- [c13] 13. The method as claimed in claim 1, wherein said joining material is provided in the form of a film.
- [c14] 14. The method as claimed in claim 1, further comprising: applying pressure to the ring element and the blade from opposite directions during said heat-treatment.